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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

CHING-WU CHU

Serial No.: 300,063

Filed: January 23, 1989

For: HIGH TRANSITION TEMPERATURE
SUPERCONDUCTING COMPOSITIONS

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GROUP: 115

PRELIMINARY AMENDMENT

Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Dear Sir:

Applicant hereby requests that the above-identified
application be amended as follows:

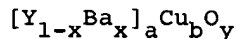
IN THE CLAIMS

Please add the following additional claims:

22. A superconducting composition exhibiting zero
electrical resistance at a temperature of 40°K or above
consisting essentially of yttrium, barium, copper and
oxygen.

23. The superconducting composition of claim 22
wherein the composition exhibits zero electrical
resistance at a temperature of 77°K or above.

24. The superconducting composition of claim 23
having the nominal formula:



wherein x is 0.4, a is 2, b is 1, and y is 2 to 4.

25. The superconducting composition of claim 22
wherein said composition has a crystal structure
uncharacteristic of that of a K_2NiF_4 crystal structure.

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